

# RESEARCH PUBLICATIONS

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## RESEARCH INTERESTS:

Plant Sciences

Integrated Pest Management

Phytoremediation

Bio-fertilizers

Biotic and Abiotic Plant Diseases

Plant Stress Physiology

Plant Microbe Interaction

Bio-pesticides

✚ **Total Published Manuscripts: >80**

✚ **Manuscripts as Principal Author (First Author/ Corresponding Author) > 32**

## 2023

1. Ahmed, S., Mudassar, S., Sardar, R., & **Yasin, N. A\***. (2023). 28-Homo-Brassinolide Confers Cadmium Tolerance in *Vigna radiata* L. Through Modulating Minerals Uptake, Antioxidant System and Gas Exchange Attributes. *Journal of Plant Growth Regulation*, 1-15. (IF: 4.64).
2. Akbar, M., Raza, A., Khalil, T., **Yasin, N. A.**, Nazir, Y., Ahmad, A. (2023). Isolation of herbicidal compounds, quercetin and  $\beta$ -caryophyllene, from *Digera muricata*. *Arabian Journal of Chemistry*. doi: <https://doi.org/10.1016/j.arabjc.2023.104653>. ((IF: 6.21).
3. Hussain, S., Ahmed, S., & **Yasin, N. A\***. (2023). Selenium Seed Priming Enhanced Growth of Salt-Stressed *Brassica rapa* L. through Improving Plant Nutrition and Antioxidative System. *Frontiers in Plant Science*, 4693. <https://doi.org/10.3389/fpls.2022.1050359>. (IF: 6.627).
4. Khan, W. U., **Yasin, N. A\***, Ahmad, S.R., Nazir, A., Naeem, K., Nadeem, Q. U. A., Khan, S. N., Ijaz, M., Tahir, A. *Burkholderia cepacia* CS8 improves phytoremediation potential of *Calendula officinalis* for Tannery Solid Waste polluted soil. Journal: *International Journal of Phytoremediation*. Journal ISSN: 1549-7879. DOI: 10.1080/15226514.2023.2183717. (IF: 3.65).
5. **Yasin NA\***, Khan TA., Ali A. & Ahmed M. (2023). Editorial: Environmental extremes threatening food crops. *Frontiers in Plant Science*, 209. 14:1172539. doi: 10.3389/fpls.2023.1172539. (IF: 6.627).
6. Ahmed, M., Ali, S., Zahid, A., Ahmad, S., **Yasin, N. A.**, & Hayat, R. (2023). Climate Change and Process-Based Soil Modeling. In *Global Agricultural Production: Resilience to Climate Change* (pp. 73-106). Cham: Springer International Publishing.
7. Ahmed, I., Li, Z., Shahzad, S., Naveed, S., Khan, A. K., Ahmed, A., ... & Munir, S. (2022). Potential Probiotics Role in Excluding Antibiotic Resistance. *Journal of Food Quality*, 2022. (IF: 3.2).
8. Nijabat, A., Naveed, N. H., Faiz, S., Yasin, N. A., & Ali, A. (2022). Combinatorial Effects of Thidiazuron and Gibberellic Acid on *in vitro* Propagation of an Endangered Tree: Cane Palm (*Dyopsis lutescens*). *Southern Journal of Research*, 2(2), 90–101. <https://doi.org/10.20021/sjr.v2i2.61>.
9. ANWAR, S., SHAH, A. A., YASIN, N. A., RAMZAN, M., KHAN, W. U., KOUSAR, S., ... & HUSSAIN, M. I. (2023). Interactive Potential of *Bacillus megaterium* A12 and Biochar in

Chromium Stress Mitigation in *Spinacia oleracea*: Methylglyoxal Detoxification and Activation of Antioxidant Enzymes. *Pak. J. Bot*, 55(5), 1931-1940. (IF: 1.1).

**2022**

10. Ahmad, A., Akram, W., Mubeen, S., Ahmad, A., Shahzadi, I., Saeed, W., **Yasin, N. A.**, Shah, A. A., & Siddiqui, M. H. (2022) Calcium nanoparticles impregnated with benzene dicarboxylic acid a new approach to alleviate combined stress of DDT and cadmium in *Brassica alboglabra* by modulating bioaccumulation, antioxidative machinery and osmoregulators. <https://doi.org/10.3389/fpls.2022.825829>. *Frontiers in Plant Science*, 209. (IF: 6.627).
11. Ahmad, A., Khan, T., Shahzad, S., Ullah, S., Shahzadi, I., Ali, A., Akram, W., **Yasin, N. A.**, & Yusuf, M. (2022). BioClay nanosheets infused with GA3 ameliorate the combined stress of hexachlorobenzene and temperature extremes in *Brassica alboglabra* plants. *Frontiers in plant science*, 13. <https://doi.org/10.3389/fpls.2022.964041>. (IF: 6.627).
12. Ahmad, A., Khan, T.A., Shahzad, S., Ullah, S., Shahzadi, I., Ali, A., Akram, W., **Yasin, N.A.** and Yusuf, M., 2022. BioClay nanosheets infused with GA3 ameliorate the combined stress of hexachlorobenzene and temperature extremes in *Brassica alboglabra* plants. *Frontiers in Plant Science*, 13. <https://doi.org/10.3389/fpls.2022.964041>. (IF: 6.627).
13. Ahmad, A., Wang, R., Mubeen, S., Akram, W., Hu, D., **Yasin, N. A.**, ... & Wu, T. (2022). Comparative transcriptomics reveals defense acquisition in *Brassica rapa* by synchronizing brassinosteroids metabolism with PR1 expression. *European Journal of Plant Pathology*, 162(4), 869-884. DOI:10.1007/s10658-021-02443-0. (IF: 2.2).
14. Akram, W., **Yasin, N. A\***, Shah, A. A., Khan, W. U., Li, G., Ahmad, A., ... & Ali, S. (2022). Exogenous application of liquiritin alleviated salt stress and improved growth of Chinese kale plants. *Scientia Horticulturae*, 294, 110762. <https://doi.org/10.1016/j.scienta.2021.110762>. (IF: 3.46).
15. Akbar, M., Khalil, T., **Yasin, N. A.**, Akram, W., Ahmad, A., & Iqbal, M. S. Ameliorative effects of *Calotropis procera* amended soil on Fusarium wilt disease, enhancement in growth and nutritional qualities in pea (*Pisum sativum*). *Scientific Papers. Series A. Agronomy*, Vol. LXV, No. 2, 2022.
16. Akbar, M., Khalil, T., **Yasin, N. A.**, Akram, W., Ahmad, A., & Iqbal, M. (2022). Ameliorative effects of *Calotropis procera* amended soil on Fusarium wilt disease, enhancement in growth and nutritional qualities in pea (*Pisum sativum*). *Scientific Papers. Series A. Agronomy*, Vol. LXV, No. 2, 2022.
17. Faiz, S., Shah, A. A., Naveed, N. H., Nijabat, A., **Yasin, N. A\***, Batool, A. I., ... & Ali, A. (2022). Synergistic application of silver nanoparticles and indole acetic acid alleviate cadmium induced stress and improve growth of *Daucus carota* L. *Chemosphere*, 290, 133200. <https://doi.org/10.1016/j.chemosphere.2021.133200>. (IF: 7.08).
18. Faiz, S., **Yasin, N. A\***, Khan, W. U., Shah, A. A., Akram, W., Ahmad, A., ... & Riaz, L. (2022). Role of magnesium oxide nanoparticles in the mitigation of lead-induced stress in *Daucus carota*: modulation in polyamines and antioxidant enzymes. *International Journal of Phytoremediation*, 24(4), 364-372. <https://doi.org/10.1080/15226514.2021.1949263>. (IF: 3.65).
19. Javad, S., Shah, A. A., Ramzan, M., Sardar, R., Javed, T., Al- Huqail, A. A., Ali, H.M., Chaudhry, O., **Yasin, N. A.**, ... & Hussain, I. (2022). Hydrogen sulphide alleviates cadmium

- stress in *Trigonella foenum-graecum* by modulating antioxidant enzymes and polyamine content. *Plant Biology*, 24(4), 618-626. <https://doi.org/10.1111/plb.13393>. (IF: 3.08).
20. Koleva, L., Umar, A., **Yasin, N. A.**, Shah, A. A., Siddiqui, M. H., Alamri, S., ... & Shabbir, Z. (2022). Iron Oxide and Silicon Nanoparticles Modulate Mineral Nutrient Homeostasis and Metabolism in Cadmium-Stressed *Phaseolus vulgaris*. *Frontiers in Plant Science*, 13, 806781-806781. <https://doi.org/10.3389/fpls.2022.806781>. (IF: 6.627).
  21. Sardar, R., Ahmed, S., & **Yasin, N. A\***. (2022). Role of exogenously applied putrescine in amelioration of cadmium stress in *Coriandrum sativum* by modulating antioxidant system. *International Journal of Phytoremediation*, 24(9), 955-962. <https://doi.org/10.1080/15226514.2021.1985961>. (IF: 3.65).
  22. Sardar, R., Ahmed, S., & **Yasin, N. A\***. (2022). Titanium dioxide nanoparticles mitigate cadmium toxicity in *Coriandrum sativum* L. through modulating antioxidant system, stress markers and reducing cadmium uptake. *Environmental Pollution*, 292, 118373. <https://doi.org/10.1016/j.envpol.2021.118373>. (IF: 8.07).
  23. Sardar, R., Ahmed, S., Akbar, M., **Yasin, N. A\***, & Li, G. (2022). Alleviation of cadmium phytotoxicity in triacontanol treated *Coriandrum sativum* L. by modulation of physiochemical attributes, oxidative stress biomarkers and antioxidative system. *Chemosphere*, 295, 133924. <https://doi.org/10.1016/j.chemosphere.2022.133924>. (IF: 7.08).
  24. Sardar, R., Ahmed, S., Shah, A. A., & **Yasin, N. A\***. (2022). Selenium nanoparticles reduced cadmium uptake, regulated nutritional homeostasis and antioxidative system in *Coriandrum sativum* grown in cadmium toxic conditions. *Chemosphere*, 287, 132332. <https://doi.org/10.1016/j.chemosphere.2021.132332>. (IF: 7.08).
  25. Shah, A. A., Ahmed, S., Malik, A., Naheed, K., Hussain, S., **Yasin, N. A.**, ... & Allakhverdiev, S. (2022). Potassium silicate and zinc oxide nanoparticles modulate antioxidant system, membranous H<sup>+</sup>-ATPase and nitric oxide content in faba bean (*Vicia faba*) seedlings exposed to arsenic toxicity. *Functional Plant Biology*. <https://doi.org/10.1071/fp21301>. (IF: 2.49).
  26. Shah, A. A., Riaz, L., Siddiqui, M. H., Nazar, R., Ahmed, S., **Yasin, N. A.**, ... & Chaudhry, O. (2022). Spermine-mediated polyamine metabolism enhances arsenic-stress tolerance in *Phaseolus vulgaris* by expression of zinc-finger proteins related genes and modulation of mineral nutrient homeostasis and antioxidative system. <https://doi.org/10.1016/j.envpol.2022.118941>. *Environmental Pollution*, 118941. (IF: 9.988).
  27. Shah, A. A., **Yasin, N. A.**, ..... & Kumar, R. 2022. Iron oxide nanoparticles and selenium supplementation improve growth and photosynthesis by modulating antioxidant system and gene expression of *chlorophyll synthase (CHLG)* and *protochlorophyllide oxidoreductase (POR)* in arsenic-stressed *Cucumis melo*. <https://doi.org/10.1016/j.envpol.2022.119413>. *Environmental Pollution*, 118941. (IF: 9.988).
  28. Shahzadi, I., Khan, Z. H., Akram, W., Khan, W. U., Ahmad, A., **Yasin, N. A.**, & Yujie, L. (2022). Heavy metal and organic pollutants removal from water using bilayered polydopamine composite of sandwiched graphene Nanosheets: One solution for two obstacles. *Separation and Purification Technology*, 280, 119711. <https://doi.org/10.1016/j.seppur.2021.119711>. (IF: 8.42).
  29. Wang, R., Shahzadi, I., Umer, M., **Yasin, N. A.**, & Wu, T. (2022). Pathogenicity factors of *Phytophthora melonis* revealed by comparative proteomics. *Journal of Plant Interactions*, 17(1), 183-197. <https://doi.org/10.1080/17429145.2021.2014581>. (IF: 4.2).
  30. Zulfiqar A, Fatima R, Ahmed S, Saleem A, Sardar R, Ahmad M. N, **Yasin N. A.** 2022. Mechanistic insights into the interaction of fluoride resistant bacteria with wheat roots towards

enhancing plant productivity by alleviating fluoride stress. *Flouride*.  
<https://www.fluorideresearch.online/epub/files/184.pdf>. (IF: 1.22).

## 2021

31. Ahmad, A., Khan, W. U., Shah, A. A., **Yasin, N. A\***, Ali, A., Rizwan, M., & Ali, S. (2021). Dopamine Alleviates Hydrocarbon Stress in *Brassica Oleracea* through Modulation of Physio-Biochemical Attributes and Antioxidant Defense Systems. *Chemosphere*, 128633. <https://doi.org/10.1016/j.chemosphere.2020.128633>. (IF: 8.943).
32. Ahmad, A., Khan, W. U., Shah, A. A., **Yasin, N. A\***, Naz, S., Ali, A., & Tahir, A. (2021). Synergistic effects of nitric oxide and silicon on promoting plant growth, oxidative stress tolerance and reduction of arsenic uptake in *Brassica juncea*. *Chemosphere*, 128384. <https://doi.org/10.1016/j.chemosphere.2020.128384>. (IF: 8.943).
33. Ahmad, A., Shahzadi, I., Mubeen, S., **Yasin, N. A.**, Akram, W., Khan, W. U., & Wu, T. (2021). Karrikinolide alleviates BDE-28, heat and Cd stressors in *Brassica alboglabra* by correlating and modulating biochemical attributes, antioxidative machinery and osmoregulators. *Ecotoxicology and Environmental Safety*, 213, 112047. <https://doi.org/10.1016/j.ecoenv.2021.112047>. (IF: 7.129).
34. Ahmad, A., **Yasin, N. A\***, Khan, W. U., Akram, W., Wang, R., Shah, A. A., ... & Wu, T. (2021). Silicon assisted ameliorative effects of iron nanoparticles against cadmium stress: Attaining new equilibrium among physiochemical parameters, antioxidative machinery, and osmoregulators of *Phaseolus lunatus*. <https://doi.org/10.1016/j.plaphy.2021.06.016>. *Plant Physiology and Biochemistry*, 166, 874-886. (IF: 5.437).
35. Akram, K., Ahmad, A., **Yasin, N. A.**, Anjum, T., Ali, B., Fatima, S., Ahmed, S., Simirgiotis, J.M., & Li, G. (2021) Mechanical strengthening and metabolic re-modulations are involved in protection against *Fusarium* wilt of tomato by *B. subtilis* IAGS174, *Journal of Plant Interactions*, 16:1,411-421, DOI: [10.1080/17429145.2021.1966107](https://doi.org/10.1080/17429145.2021.1966107). (IF: 4.2).
36. Akram, W., Khan, W. U., Shah, A. A., **Yasin, N. A\***, & Li, G. Liquiritoside alleviated Pb induced stress in *Brassica rapa* subsp. *Parachinensis*: Modulations in glucosinolate content and some physiochemical attributes. <https://doi.org/10.3389/fpls.2021.722498>. *Frontiers in Plant Science*, 1799. (IF: 6.627).
37. Akram, W., **Yasin, N. A.**, Shah, A. A., Khan, W. U., Li, G., Ahmad, A., ... & Ali, S. (2021). Exogenous application of liquiritin alleviated salt stress and improved growth of Chinese kale plants. *Scientia Horticulturae*, 110762. <https://doi.org/10.1016/j.scienta.2021.110762>. (IF: 4.342).
38. Faiz, S., Shah, A. A., Naveed, N. H., Nijabat, A., **Yasin, N. A.**, Batool, A. I., ... & Ali, A. (2021). Synergistic application of silver nanoparticles and indole acetic acid alleviate cadmium induced stress and improve growth of *Daucus carota* L. <https://doi.org/10.1016/j.chemosphere.2021.133200>. *Chemosphere*, 133200. (IF: 8.943).
39. Faiz, S., **Yasin, N. A\***, Khan, W. U., Shah, A. A., Akram, W., Ahmad, A., ... & Riaz, L. (2021). Role of magnesium oxide nanoparticles in the mitigation of lead-induced stress in *Daucus carota*: modulation in polyamines and antioxidant enzymes. <https://doi.org/10.1080/15226514.2021.1949263>. *International Journal of Phytoremediation*, 1-9. (IF: 4.0).

40. Hu, X., Chen, J., ..... **Yasin, N.A.**..... 2021. Metabolomic and pharmacologic insights of aerial and underground parts of *Glycyrrhiza uralensis* Fisch. for maximum utilization of medicinal resources. <https://doi.org/10.3389/fphar.2021.658670>. *Frontiers in Pharmacology*. 12, 1306. (IF: 6.627).
41. Hussain, R., Shah, A. I., Nijabat, A., Naveed, N. H., Afreen, N., **Yasin, N. A.**, ... & Ali, A. (2021). Screening of phytochemical and antibacterial activity of *Ginkgo biloba* l. extract against different pathogenic bacterial strains. *Fresenius Environmental Bulletin*, 30(4 A), 4205-4209. (IF: 0.553).
42. Shah, A. A., **Yasin, N. A.**, Mudassir, M., Ramzan, M., Hussain, I., Siddiqui, M. H., ... & Kumar, R. (2022). Iron oxide nanoparticles and selenium supplementation improve growth and photosynthesis by modulating antioxidant system and gene expression of chlorophyll synthase (CHLG) and protochlorophyllide oxidoreductase (POR) in arsenic-stressed *Cucumis melo*. *Environmental Pollution*, 119413. <https://doi.org/10.1016/j.envpol.2022.119413> (IF: 9.988).
43. Jaleel, W., Li, Q., Shi, Q., Qi, G., Latif, M., Ali, S., ... & He, **Yasin, N.A.**....2021. Using GCMS to find out the volatile components in the aroma of three different commercial fruits in China. *JAPS: Journal of Animal & Plant Sciences*, 31(1). <https://doi.org/10.36899/JAPS.2021.1.0204>. (IF: 0.57).
44. Li, G., Shah, A. A., Khan, W. U., **Yasin, N. A.\*.**, Ahmad, A., Abbas, M., ... & Safdar, N. (2021). Hydrogen sulfide mitigates cadmium induced toxicity in *Brassica rapa* by modulating physiochemical attributes, osmolyte metabolism and antioxidative machinery. *Chemosphere*, 2 (63). 127999. <https://doi.org/10.1016/j.chemosphere.2020.127999>. (IF: 8.943).
45. Ramazan, M., Sana, S., Javed, N., ....**Yasin, N.A.** ... (2021). Mitigation of Bacterial Spot Disease Induced Biotic Stress in *Capsicum annum* L. cultivars via Antioxidant Enzymes and Isoforms. <https://doi.org/10.1038/s41598-021-88797-1>. *Scientific Reports*. 11(1), 1-10. (IF: 4.996).
46. S. Javad, A. A. Shah, M. Ramzan, R. Sardar, T. Javed, A. A. Al-Huqail, H. M. Ali, O. Chaudhry, **N. A. Yasin**, S. Ahmed, R. A. Hussain, I. Hussain. Hydrogen sulphide alleviates cadmium stress in *Trigonella foenum-graecum* by modulating antioxidant enzymes and polyamine content. *Plant Biology*. <https://doi.org/10.1111/plb.13393>. (IF: 3.877).
47. Sardar, R., Ahmed, S. & **Yasin, N. A.\*.** (2021). Role of exogenously applied putrescine in amelioration of cadmium stress in *Coriandrum sativum* by modulating antioxidant system. *International Journal of Phytoremediation*. (IF: 4.0).
48. Sardar, R., Ahmed, S., & **Yasin, N. A.\*.** (2021). Seed priming with karrikinolide improves growth and physiochemical features of *Coriandrum sativum* under cadmium stress. <https://doi.org/10.1016/j.envadv.2021.100082>. *Environmental Advances*, 5, 100082.
49. Sardar, R., Ahmed, S., & **Yasin, N. A.\*.** (2021). Titanium dioxide nanoparticles mitigate cadmium toxicity in *Coriandrum sativum* L. through modulating antioxidant system, stress markers and reducing cadmium uptake. DOI: [10.1016/j.envpol.2021.118373](https://doi.org/10.1016/j.envpol.2021.118373). *Environmental Pollution*. (IF: 9.988).
50. Sardar, R., Ahmed, S., Shah, A. A. & **Yasin, N. A.\*.** (2021). Selenium nanoparticles reduced cadmium uptake, regulated nutritional homeostasis and antioxidative system in *Coriandrum sativum* grown in cadmium toxic conditions. DOI: [10.1016/j.chemosphere.2021.132332](https://doi.org/10.1016/j.chemosphere.2021.132332). *Chemosphere*. (IF: 8.943).
51. Shah, A. A., Aslam, S., Akbar, M., Ahmad, A., Khan, W. U., **Yasin, N. A.\*.**, ... & Ali, S. (2021). Combined effect of *Bacillus fortis* IAGS 223 and zinc oxide nanoparticles to alleviate cadmium

phytotoxicity in *Cucumis melo*. *Plant Physiology and Biochemistry*. <https://doi.org/10.1016/j.plaphy.2020.11.011>. (IF: 5.437).

53. Shah, A. A., **Yasin, N. A\***, Akram, K., Ahmad, A., Khan, W. U., Akram, W., & Akbar, M. (2021). Ameliorative role of *Bacillus subtilis* FBL-10 and silicon against lead induced stress in *Solanum melongena*. *Plant Physiology and Biochemistry*, 158, 486-496. <https://doi.org/10.1016/j.plaphy.2020.11.037>. (IF: 5.437).
54. Shah, A., Ahmed, S., Malik, A., Naheed, K., Hussain, S., **Yasin, N. A.**, ... & Ali, A. Potassium silicate and zinc oxide nanoparticles modulate antioxidant system, membranous H<sup>+</sup>-ATPase and nitric oxide content in faba bean (*Vicia faba* L.) seedlings under arsenic toxicity. <https://doi.org/10.1071/FP21301>. *Functional Plant Biology*. (IF: 2.81).
55. Shah, A.A., Azna, **Yasin, N.A\***, Ahmed, S., Abbas, M., Abbasi, G.H. (2021). 4-Hydroxymelatonin alleviates nickel stress, improves physiochemical traits of *SOLANUM MELONGENA*: Regulation of polyamine metabolism and antioxidative enzyme. *Scientia Horticulturae*. <https://doi.org/10.1016/j.scienta.2021.110036>. (IF: 4.34).
56. Shahzadi, I., ..... **Yasin, N.A\***, ... (2021). Heavy metal and organic pollutants removal from water using FEBT-PDM21 MOF composite of sandwiched cellulose graphenenanosheets: one solution for two obstacles. *Separation and Purification Technology*. <https://doi.org/10.1016/j.seppur.2021.119711> (IF: 9.13)
57. Tariq, M., Shah, A. A., **Yasin, N. A\***, Ahmad, A., & Rizwan, M. (2021). Enhanced performance of *Bacillus megaterium* OSR-3 in combination with putrescine ameliorated hydrocarbon stress in *Nicotiana tabacum*. *International Journal of Phytoremediation*, 1-11. <https://doi.org/10.1080/15226514.2020.1801572>. (IF: 4.0).

## 2020

58. Ahmad, A., Akram, W., Shahzadi, I., Wang, R., Hu, D., Li, G., **Yasin, N. A.**,.....& Wu, T. (2020). First Report of *Fusarium nelsonii* Causing Early-Stage Fruit Blight of Cucumber in Guangzhou, China. *Plant Disease*, 104(5), 1542. <https://doi.org/10.1094/PDIS-11-19-2511-PDN>. (IF: 4.43).
59. Akram, W., Ahmad, A., Juxian, G., **Yasin, N. A.**, Akbar, M., Luo, W., ...& Li, G. (2020). Occurrence of head rot disease caused by *Fusarium verticillioides* on Chinese flowering cabbage (*Brassica rapa* L subsp. parachinensis) in China. *Crop Protection*, 105180. <https://doi.org/10.1016/j.cropro.2020.105180>. (IF: 2.57)
60. Ali Shah, A., Ahmed, S., & **Yasin, N. A. \*** (2020). Cadmium stress consolation in melatonin supplemented *Cucumis sativus* through modulation of antioxidative defense system. *Iranian Journal of Plant Physiology*, 10(2), 3135-3154. (IF: 0.69).
61. Mushtaq, T., Shah, A. A., Akram, W., & **Yasin, N. A\***. (2020). Synergistic ameliorative effect of iron oxide nanoparticles and *Bacillus subtilis* S4 against arsenic toxicity in *Cucurbita moschata*: polyamines, antioxidants, and physiochemical studies. *International journal of phytoremediation*, 1-12. <https://doi.org/10.1080/15226514.2020.1781052>. (IF: 3.2)
62. Nemat, H., Shah, A. A., Akram, W., Ramzan, M., & **Yasin, N. A\***. (2020). Ameliorative effect of co-application of *Bradyrhizobium japonicum* EI09 and Se to mitigate chromium stress in *Capsicum annum* L. *International Journal of Phytoremediation*, 1-12. <https://doi.org/10.1080/15226514.2020.1780412>. (IF: 3.2).

63. Shah, A. A., Ahmed, S., Abbas, M., & **Yasin, N. A\***. (2020). Seed priming with 3-epibrassinolide alleviates cadmium stress in *Cucumis sativus* through modulation of antioxidative system and gene expression. *Scientia Horticulturae*, 265, 109203. <https://doi.org/10.1016/j.scienta.2020.109203>. (IF: 3.46).
64. Shah, A. A., Ahmed, S., Ali, A., & **Yasin, N. A\***. (2020). 2-Hydroxymelatonin mitigates cadmium stress in *Cucumis sativus* seedlings: Modulation of antioxidant enzymes and polyamines. *Chemosphere*, 243, 125308. <https://doi.org/10.1016/j.chemosphere.2019.125308>. (IF: 7.08).
65. Shah, A. A., Bibi, F., Hussain, I., **Yasin, N. A\***, Akram, W., Tahir, M. S., ... & Datta, R. (2020). Synergistic effect of *Bacillus thuringiensis* IAGS 199 and putrescine on alleviating cadmium-induced phytotoxicity in *capsicum annum*. *Plants*, 9(11), 1512. <http://dx.doi.org/10.3390/plants9111512>. (IF: 3.9).
66. Shah, A. A., Khan, W. U., **Yasin, N. A\***, Akram, W., Ahmad, A., Abbas, M., ... & Safdar, M. N. (2020). Butanolide alleviated cadmium stress by Improving plant growth, photosynthetic parameters and antioxidant defense system of *Brassica oleracea*. *Chemosphere*, 127728. <https://doi.org/10.1016/j.chemosphere.2020.127728>. (IF: 7.08).
67. Shah, A., Ahmed, S., & **Yasin, N.A\***. 2020. 2-hydroxymelatonin induced nutritional orchestration in *Cucumis sativus* under cadmium toxicity: modulation of non-enzymatic antioxidants and gene expression. *International journal of phytoremediation*, 1-11. <https://doi.org/10.1080/15226514.2019.1683715>. (IF: 3.2).

## 2019

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